## IN THE CLAIMS

## Add claims 11-16 as follows:

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- 11. A method for the preparation of hyperpolymeric hemoglobins with uniform modar masses from solutions containing cross-linked hyperpolymeric hemogloblin molecules with sizes which are up to (5-10) x 100 times of the size of (quarternary structured) native hemoglobin molecules, comprising the steps of:
  - performing a fractional precipitation of the solution by adding a precipitation reagent;

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- performing a preparative chromatographical fractionation by using gel-permeation chromatography;
- performing a fractionation by partial dissolution of a precipitate of hemoglobin hyperpolymers; or
- performing at least one of the steps above or any combination of them.

- 12. The method according to claim 11, comprising hemoglobin hyperpolymers synthesized by using bifunctional cross-linking agents.
- 13. The method according to claim 11, where the crosslinkers used are glutaraldehyde or 2,5-diisothiocyanatobenzene sulfonate.
- 14. The method according to claim 11, wherein the fraction precipitation is performed by adding ammonium sulphate  $((NH_4)_2SO_4)$  to a concentrated hemoglobin hyperpolymers solution and a reaction time of at least 30 Minutes.
- 15. The method according to claim 11, wherein the chromatographic fractionation is performed with Sephacryl S-400 HR gel and the solvent used has the composition:

NaCI 144 mmol/L

HEPES buffer 10 mmol/L

 $NaN_3$  100 mg/L

16. The method according to claim 11, wherein the electrolyte used as the solvent for fractionation by partial dissolution has the composition:

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